



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, D.C. 20460

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MAR 23 1994

OFFICE OF  
SOLID WASTE AND EMERGENCY RESPONSE

**MEMORANDUM**

**SUBJECT:** Transmittal of Guidance Manual for the  
Integrated Exposure Uptake Biokinetic Model for Lead  
in Children and IEUBK Model, Version 0.99d

**FROM:** Henry L. Longest II, Director *HL*  
Office of Emergency and Remedial Response  
*for Michael H. Shapiro*  
Michael H. Shapiro, Director  
Office of Solid Waste

**TO:** Director, Waste Management Division,  
Regions I, IV, V, and VII  
Director, Emergency and Remedial Response Division  
Region II  
Director, Air and Waste Management Division  
Region II  
Director, Hazardous Waste Management Division  
Regions III, VI, VIII, and IX  
Director, Hazardous Waste Division  
Region X  
Director, Environmental Services Division  
Regions I, VI, VII and X

**PURPOSE**

This memorandum transmits the Guidance Manual for the Integrated Exposure Uptake Biokinetic Model for Lead in Children and a copy of version 0.99d of the IEUBK Model.

**BACKGROUND**

The development of the IEUBK Model has included the cooperative efforts of several EPA programs over nearly a decade. For the last three years, the efforts to develop the IEUBK Model and Guidance Manual have been coordinated by the Technical Review Workgroup for Lead, which reports to the Chief of the Toxics Integration Branch in the Office of Emergency and Remedial Response. The Workgroup includes EPA Regional scientists and scientists from the Superfund program at Headquarters, the Office of Research and Development, and the Office of Pollution Prevention and Toxics. All three offices have reviewed and approved the public release of the IEUBK Model and the Guidance Manual.

As described in the Guidance Manual, the Workgroup is developing additional technical documents in FY 1994 and FY 1995 to supplement the Guidance Manual. These supplemental documents will be provided to you as soon as they are completed.

#### OBJECTIVE

The Guidance Manual describes how to use the IEUBK Model for estimating risks from childhood lead exposure to soil and household dust that might be encountered at Superfund sites and RCRA corrective action facilities (although other applications of the Model are possible). It has been developed to assist the user in providing appropriate input to the IEUBK Model. IEUBK Model version 0.99d is the current, stabilized version of the Model and should be used at CERCLA/RCRA sites until further notice.

#### IMPLEMENTATION

As appropriate, the guidance and Model should be used as risk assessment tools to estimate risks from childhood lead exposure at hazardous waste sites. Both the Guidance Manual (Pub. No. 9285.7-15-1; PB93-963510) and the Model (Pub. No. 9285.7-15-2; PB93-963511) will be available shortly to Superfund staff through the Superfund Document Center (703-603-8917) and to the public through the National Technical Information Service (703-487-4650).

For further information about the Guidance Manual and the IEUBK Model, Superfund staff should please contact their Regional Toxics Integration Coordinator. RCRA staff should please call their RCRA regional risk assessor. Superfund staff requesting review of site-specific applications of the IEUBK Model by the Technical Review Workgroup should contact Susan Griffin, Technical Review Workgroup Chair (303-294-1062) or Bruce Means, Acting Chief of the Toxics Integration Branch (703-603-9880).

#### Attachments

cc: Regional Superfund Toxics Integration Coordinators  
Larry G. Reed, OERR  
David A. Bennett, OERR  
Devereaux Barnes, OSW  
Bill Farland, OHEA  
Tim Fields, SRO